

WHAT IS CLAIMED IS:

1. A thermoplastic resin composition comprising a thermoplastic resin containing no halogen atom, from 0.1 to 50 parts by mass, per 100 parts by mass of said thermoplastic resin, of a phosphate type glass, and from 0.1 to 50 parts by mass, per 100 parts by mass of said thermoplastic resin, of a phosphorus type flame retardant other than the above phosphate type glass.
2. The thermoplastic resin composition according to Claim 1, wherein the total amount of the phosphate type glass and the phosphorus type flame retardant is from 0.5 to 50 parts by mass per 100 parts by mass of the thermoplastic resin containing no halogen atom.
3. The thermoplastic resin composition according to Claim 1, wherein the thermoplastic resin containing no halogen atom is at least one thermoplastic resin selected from the group consisting of a polycarbonate resin, a polyphenylene ether resin, a polystyrene resin and an acrylonitrile/butadiene/styrene copolymer resin.
4. The thermoplastic resin composition according to Claim 1, wherein the thermoplastic resin containing no halogen atom is a polycarbonate resin, and the total amount of the phosphate type glass and the phosphorus type flame retardant is from 1 to 15 parts by mass per 100 parts by mass of the thermoplastic resin.
5. The thermoplastic resin composition according to Claim 1, wherein the thermoplastic resin containing no

halogen atom is at least one thermoplastic resin selected from the group consisting of a polyphenylene ether resin, a polystyrene resin and an

acrylonitrile/butadiene/styrene copolymer resin, and the

5 total amount of the phosphate type glass and the phosphorus type flame retardant is from 10 to 45 parts by mass per 100 parts by mass of the thermoplastic resin.

6. The thermoplastic resin composition according to

Claim 1, which further contains a antidripping agent in

10 an amount of from 0.05 to 2 parts by mass per 100 parts by mass of the thermoplastic resin containing no halogen atom.

7. The thermoplastic resin composition according to

Claim 6, wherein the antidripping agent is

15 polytetrafluoroethylene.

8. The thermoplastic resin composition according to

Claim 1, wherein the phosphorus type flame retardant other than the phosphate type glass is at least one member selected from the group consisting of a monomer

20 type phosphoric acid ester flame retardant and a condensed type phosphoric acid ester flame retardant.

9. The thermoplastic resin composition according to

Claim 8, wherein the phosphorus type flame retardant selected from the group consisting of a monomer type

25 phosphoric acid ester flame retardant and a condensed type phosphoric acid ester flame retardant, is a phosphorus type flame retardant containing no halogen

atom.

10. The thermoplastic resin composition according to
Claim 1, wherein the phosphate type glass has a glass
transition temperature higher than 300°C and lower than
5 400°C.

11. The thermoplastic resin composition according to
Claim 10, wherein the phosphate type glass is a phosphate
type glass of a composition comprising, as represented by
mol%, from 15 to 45% of P₂O₅, from 3 to 60% of RO (at
10 least part thereof is ZnO), from 3 to 40% of R'₂O, from 0
to 15% of Al₂O₃, from 3 to 25% of B₂O₃ and from 0 to 30%
of SO₃ as components (wherein R is a bivalent metal, and
R' is an alkali metal).

12. The thermoplastic resin composition according to
15 Claim 1, wherein the phosphate type glass is a phosphate
type glass having surface treatment preliminarily applied.

13. The thermoplastic resin composition according to
Claim 12, wherein the surface treatment is surface
treatment with a silane coupling agent.

20 14. The thermoplastic resin composition according to
Claim 12, wherein the phosphate type glass has a glass
transition temperature higher than 300°C and lower than
400°C.

15. The thermoplastic resin composition according to
25 Claim 14, wherein the phosphate type glass is a phosphate
type glass of a composition comprising, as represented by
mol%, from 15 to 45% of P₂O₅, from 3 to 60% of RO (at

least part thereof is ZnO), from 3 to 40% of R₂O, from 0 to 15% of Al₂O₃, from 3 to 25% of B₂O₃ and from 0 to 30% of SO₃ as components (wherein R is a bivalent metal, and R' is an alkali metal).

5 16. The thermoplastic resin composition according to
Claim 1, wherein the thermoplastic composition contains
substantially no component containing a chlorine atom or
a bromine atom.

10 17. The thermoplastic resin composition according to
Claim 6, wherein the thermoplastic composition contains
substantially no component containing a chlorine atom or
a bromine atom.

15 18. A process for producing the thermoplastic resin
composition as defined in Claim 1, which comprises
melting and mixing the respective components, followed by
extrusion molding into pellets to obtain a pelletized
molding material made of the thermoplastic resin
composition as defined in Claim 1.

20 19. A process for producing the thermoplastic resin
composition as defined in Claim 6, which comprises
melting and mixing the respective components, followed by
extrusion molding into pellets to obtain a pelletized
molding material made of the thermoplastic resin
composition as defined in Claim 6.